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## PATENT ABSTRACTS OF JAPAN

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(71) Applicant: **mitsui petrochem ind ltd**

(72) Inventor: **azuma yasusuke  
tabata homare**

(74) Representative:

### (54) PRODUCTION OF TAXANE-TYPE DITERPENE

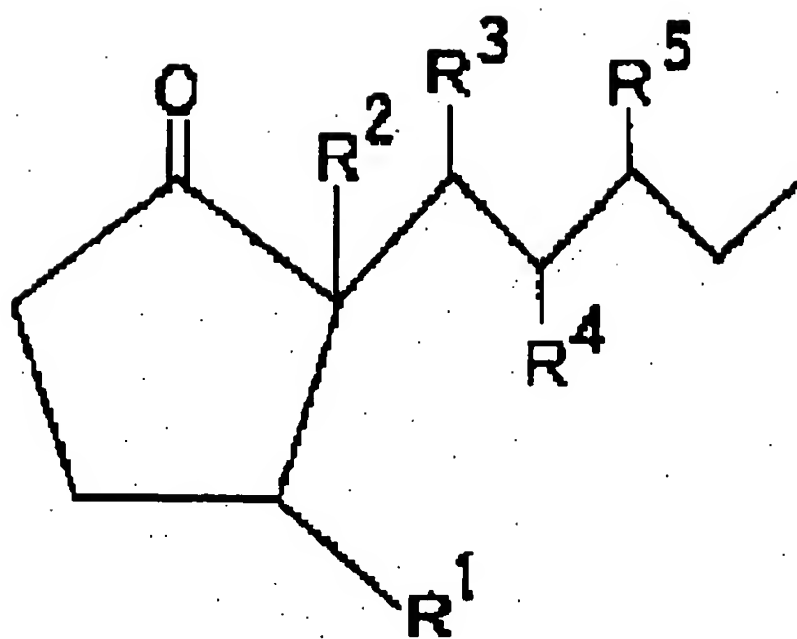
(57) Abstract:

**PURPOSE:** To obtain a taxane-type diterpene in high productivity useful as treating agent, etc., for ovarian cancer, breast cancer, lung cancer, etc., by culturing plant tissue or cells capable of producing a taxane-type diterpene in the presence of an amine and recovering the product from the cultured material and medium.

**CONSTITUTION:** Tissue and/or cells (e.g. callus) of a plant (e.g. *Taxus baccata*) producing a taxane-type diterpene is cultured in the presence of an amine (e.g. spermidine) and a jasmonic acid expressed by the formula {R1 is a 1-4C alkyl or a group of the formula (CH<sub>2</sub>)<sub>n</sub>COR6 [R6 is OH, OM (M is an alkali metal, an alkaline earth metal or NH<sub>4</sub>), NHR7 (R7 is H, a 1-4C acyl, a 1-4 alkyl or an amino acid residue), OR8 (R8 is a 1-4C alkyl or a carbohydrate residue); n=1-7]; R2 to R5 are each H or adjacent two groups together form a double bond}. The product is recovered from the cultured material and/or the cultured medium to obtain the objective taxane-type diterpene (e.g. taxol), which is useful as treating agent for

ovarian cancer, breast cancer, lung cancer, etc.

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View: INPADOC | Jump to: [Top](#) Go to: [Derwent...](#)[Email this to a friend](#)Title: **JP8056681A2: PRODUCTION OF TAXANE-TYPE DITERPENE**Country: **JP Japan**Kind: **A**Inventor: **AZUMA YASUSUKE;  
TABATA HOMARE;**Assignee: **MITSUI PETROCHEM IND LTD**  
[News, Profiles, Stocks and More about this company](#)Published / Filed: **March 5, 1996 / Aug. 25, 1994**Application Number: **JP1994000201151**IPC Code: **C12P 7/00; A61K 35/78; C12P 17/02; C12P 7/00;**Priority Number: **Aug. 25, 1994 JP1994000201151**

Abstract:



PURPOSE: To obtain a taxane-type diterpene in high productivity useful as treating agent, etc., for ovarian cancer, breast cancer, lung cancer, etc., by culturing plant tissue or cells capable of producing a taxane-type diterpene in the presence of an amine and recovering the product from the cultured material and medium.

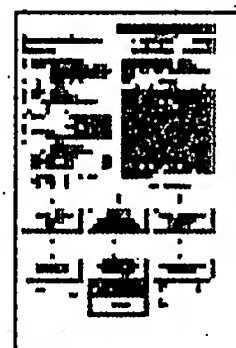
CONSTITUTION: Tissue and/or cells (e.g. callus) of a plant (e.g. *Taxus baccata*) producing a taxane-type diterpene is cultured in the presence of an amine (e.g. spermidine) and a jasmonic acid expressed by the formula {R1 is a 1-4C alkyl or a group of the formula (CH<sub>2</sub>)<sub>n</sub>COR6 [R6 is OH, OM (M is an alkali metal, an alkaline earth metal or NH<sub>4</sub>), NHR7 (R7 is H, a 1-4C acyl, a 1-4 alkyl or an amino acid residue), OR8 (R8 is a 1-4C alkyl or a carbohydrate residue); n=1-7]; R2 to R5 are each H or adjacent two groups together form a double bond}. The product is recovered from the cultured material and/or the cultured medium to obtain the objective taxane-type diterpene (e.g. taxol), which is useful as treating agent for ovarian cancer, breast cancer, lung cancer, etc.

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Designated Country: **CA CN EP KR US DE FR GB IT NL**




Family:

PDF	Publication	Pub. Date	Filed	Title
	<a href="#">WO9514103A1</a>	May 26, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<a href="#">US20020012976A1</a>	Jan. 31, 2002	April 28, 1999	METHOD OF PRODUCING A TAXANE-TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH PRODUCE THE TAXANE-TYPE DITERPENE AT A HIGH RATE
	<a href="#">US6403343B2</a>	June 11, 2002		

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 <u>US6403343</u>	June 11, 2002	April 28, 1999	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
 <u>US5968789</u>	Oct. 19, 1999	Feb. 28, 1997	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
 <u>US5637484</u>	June 10, 1997	July 14, 1995	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
<u>KR0172606B1</u>	Feb. 1, 1999	July 5, 1995	PROCESS FOR PRODUCING TAXANE DITERPENE
<u>KR0169081B1</u>	Jan. 15, 1999	June 18, 1998	METHOD OF HARVESTING CULTURED CELLS CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
<u>KR0169080B1</u>	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
<u>KR0169079B1</u>	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
<u>JP8116981A2</u>	May 14, 1996	Oct. 18, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
<u>JP8056681A2</u>	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
<u>JP8056680A2</u>	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
<u>JP8033490A2</u>	Feb. 6, 1996	March 7, 1995	PRODUCTION OF TAXANE-TYPE DITERPENE
<u>JP8009983A2</u>	Jan. 16, 1996	June 28, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
<u>JP7308197A2</u>	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
<u>JP7308196A2</u>	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
<u>JP7135967A2</u>	May 30, 1995	Nov. 15, 1993	PREPARATION OF CULTURED CELL HAVING HIGH PRODUCTIVITY OF TAXANE-TYPE DITERPENE
<u>JP2967034B2</u>	Oct. 25, 1999		
 <u>EP1063300A3</u>	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
 <u>EP1063300A2</u>	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
 <u>EP1063299A3</u>	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
 <u>EP1063299A2</u>	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
 <u>EP1054065B1</u>	July 31, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
			A method of producing a taxane-type diterpene and method of obtaining

 EP105401	Nov. 22, 2000	Nov. 9, 1994	cultured cells which produce the taxane-type diterpene at a high rate
 EP0683232B1	Feb. 14, 2001	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
EP0683232A4	Nov. 29, 1995	Nov. 9, 1994	
 EP0683232A1	Nov. 22, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
DE69431135C0	Sept. 5, 2002	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-TYP DITERPEN UND METHODE ZUR GEWINNUNG VON KULTURZELLEN DIE TAXAN-TYP DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
DE69426692T2	June 21, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
DE69426692C0	March 22, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
CN1251391A	April 26, 2000	June 30, 1999	METHOD FOR OBTAINING HIGH-PRODUCTIVE CULTURE CELLS OF TAXANES DITERPENE
CN1248630A	March 29, 2000	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
CN1248629A	March 29, 2000	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
CN1119028A	March 20, 1996	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
CN1083012B	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXANES DITERPENE
CN1083011B	April 17, 2002	June 30, 1999	METHOD FOR OBTAINING HIGH-PRODUCTION CULTURE CELLS OF TAXANES DITERPENE
CN1083010B	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
CN1058054B	Nov. 1, 2000	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
CA2153986AA	May 26, 1995	Nov. 9, 1994	A METHOD OF PRODUCING A TAXANE-TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH PRODUCE THE TAXANE-TYPE DITERPENE AT A HIGH RATE
40 family members shown above			